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Making Homemade Wine

By Robert Cluett

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Illustrations by Sue Storey

ABOUT THE AUTHOR

Robert Claiborne teaches English at York University, teaches speech, is the author of Prose Style and Critical Reading, and makes many gallons of wine a year.

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Making Homemade Wine

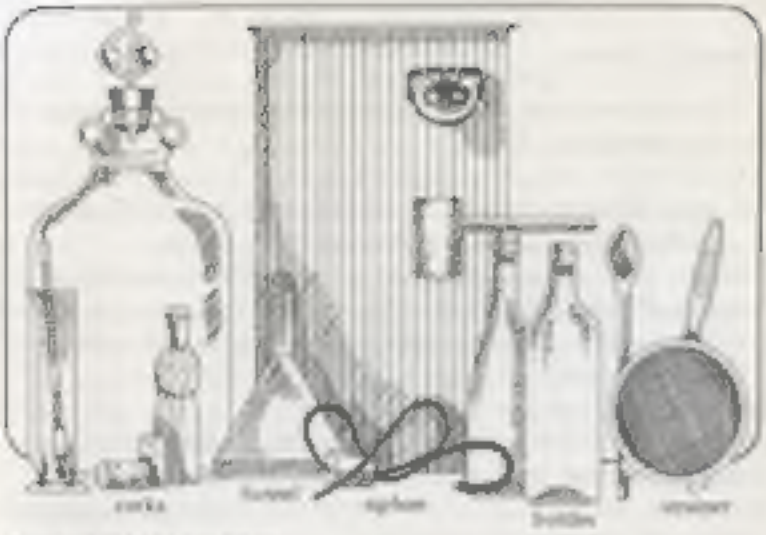
by Robert Cluett

Wine is probably the most ancient and widespread alcoholic drink. It has been around at least several thousand years, as the literature of both the ancient Greeks and Hebrews tells us. Today, alcohol is available in a wide variety of forms: wines, beers, and distilled spirits. But it is wine that is the most popular with home brewers.

Wine is the easiest alcohol to make. It does not require the fastidious temperature control involved in brewing beer. Unlike distilled spirits, it requires no still and does not invite the curiosity of the revenue agents — unless you undertake to sell the wine you produce, and we do not recommend doing that. You can make fine wines from grapes or other fruits, or you can make it from vegetables, grains, or flowers.

This bulletin will take the mystery out of making wine. We will teach you the language of winemakers and explain what ingredients and equipment are essential to the process. We will offer some reliable and delicious wine recipes, and we will tell you the cure and prevention of 13 common problems — in case anything goes wrong with your wine. But we don't expect anything to go wrong. So, enjoy!

As with any specialty, winemaking has a language all its own. Before we go any further, let me introduce you to some of the terms you will come across in the text.



Basic winemaking equipment

De-stemmer: For taking stems off fresh grapes. A large wooden spaghetti server makes an adequate substitute.

Filter and pump: These are used as a last-ditch method of clarification. I have used one once in 200 batches of homemade wine.

Gallon jugs: These are useful in the stage between carboy and bottle. Sometimes restaurants give them away.

Vinometer: Measures alcohol in wines that are fermented out and dry; it is not useful for wines with residual sugar in them.

Wine press: Device for pressing fruit either before or at the end of the first fermentation in the vat. It is necessary if you are making over 100 gallons a year of fresh grape or fresh fruit wine.

Ingredients

Listed below are the ingredients you will need, in addition to fruit, to make wine at home.

Essential Ingredients — Long Shelf-Lives

Acid blend: Raises acidity level of low-acid must and flabby finished wine.

Campden Tablets: Disinfects fresh must and wines during racking.
Disinfectant: Solution of water and potassium metabisulfite crystals, kept in gallon jug. Absolutely essential for cleanliness.
Grape tannin powder: Enhances the flavor and gustiness of cider, perry, and wines made from concentrates.

Essential — But Perishable — Ingredients

Pectic enzymes: Removes the pectic haze from fruit wines and is put into the must just before yeast. It has a 3-month shelf life.
Yeast culture, liquid or powdered: Essential to fermentation, the yeast organisms turn sugar to alcohol. It has a one-year shelf life if kept unopened in the original sealed jar or packet.

Optional Ingredients

Finings: A powder used to remove microscopic particles that cloud wine.
Glycerine: Adds finish to table wines.
Oak chips: For adding barrel taste, especially to red wines.
Pure unflavored grain or grape alcohol: Fortifies port, sherry, and Madeira.
Sorbic acid (potassium sorbate): Stabilizes the wine before bottling.
Vitamin C tablets, 250 mg: Protects white wines from oxidation.

Basic Techniques of Winemaking

There are only 4 requirements for successful winemaking.

- *The weight or sugar content should be enough to read 1.080 to 1.090 on a hydrometer scale.* (All hydrometer readings in this book are given in the form of *specific gravity* (SG), that is, a fraction of the weight of water.)
- *The acidity of your must should measure .35 to .80 percent to prevent early deterioration.* Obtain this reading with your titration kit.
- *Proper temperatures must be maintained.* During the first 10 days of fermentation, the temperature of the must should measure

- If fruit pulp sticks to your gear, use a plastic abrasive pad and hot water to remove it.
- When putting away your primary fermenters for a while, rinse with sulfite solution, cover with a plastic sheet, and secure with a tight string.

Preparing the Fruit

After you have removed all the stems and leaves from your washed fruit, it is ready for crushing. You can use a commercially available crusher for this stage, or you can improvise with a large plastic container and wooden mallet. With white grapes, as well as with many tree fruits, press out the vegetable matter in a press, so the must consists of nothing but juice. With red grapes, you will ferment first for 5 to 10 days and then go to the press. If you are making no more than 35 or 40 gallons a year, you can use a medium mesh or fine-mesh nylon bag to get the effect of a pressing. Just crush your fruit in the bag, then squeeze the juice out.

The Garden Way cider press can be used to crush fruit for wine.

Add hot water and other ingredients (see recipe section) to the crushed fruit, and you will have a must, or a liquid that is nearly ready to ferment. Add to the must some Campden Tablets, which will keep it free from debilitating organisms.

Testing the Must

First, test the must with a hydrometer. If the must weight is between 1.080 and 1.095, you won't want to tinker. If it is below 1.080, you will want to add sugar. If it is above 1.095, you will probably want to cut the must somewhat with water, unless you want a very sweet or alcoholic wine. Temperature has a large effect on specific gravity readings, and hydrometers are calibrated to be accurate when the must is at 60 or 68 degrees F.

Next, test the must for acidity with a titration kit. If it is a red must and the acidity is .65 percent, or a white must and the acidity is .75 percent, you will be happy indeed. If your acidity is too low, add an acid blend (citric, malic, or tartaric). With shipped Califor-

Measure specific gravity with a hydrometer. Some hydrometers are calibrated to read accurately at 60 degrees F., others at 68 degrees F. Make sure you are reading your hydrometer at the proper temperature. To read a hydrometer, ignore the way the liquid curves against the stem and tube because of surface tension, and take the reading from the level portion of the liquid.

ma grapes, the natural acidity will be too low. If it's too high (and with Eastern grapes, it may well be), you may want to cut the must somewhat with a sugar and water solution of weight 1.090, or with a dilute low-acidity must made from a hot-climate concentrate (also available from wine-supply stores). Some of my friends ferment their Eastern grapes at a natural acidity of 1.5 percent, but they are patient people: that kind of acidity level makes for either a disagreeable little wine or a long wait — about 5 years (wine loses acidity over time).

You can get to this stage of the process much more quickly and easily by using a grape concentrate from a winemakers' supply store or by using grape juice shipped to a juicer in your nearest urban area. You should not be put off by previous unhappy experiences with concentrates. In the last few years, Wine-Art Ltd. of Toronto, a marketer of home wine products, has been selling concentrates from Australia that make wines indistinguishable from those made with fresh grapes.

Adding the Yeast Culture

The last item of preparation is adding a yeast culture, which should have been mixed with a starter solution 2 to 3 days before the must was crushed or put together. Here is a formula for starting yeast for a 5-gallon batch of wine.

3 ounces frozen orange juice concentrate
24 ounces water
6 ounces sugar
2 rounded teaspoons of ordinary yeast nutrient

Put the frozen orange juice, water, and sugar into a 2-quart saucepan, and bring the mix to a boil on the stove. When the mix boils, remove it from the heat, add the nutrient, and cover the pot until the mix cools to room temperature.

Transfer the starter mix to a sterilized 1-gallon jug, add the yeast culture, and stopper the jug with an air lock. After 24 to 36 hours, "islands" of active yeast should appear on the surface of the liquid. Give the jug a swirl every 6 to 8 hours. When the solution gets to an active ferment (much CO_2 is expelled through the air lock when you swirl), it is ready to add to the must.

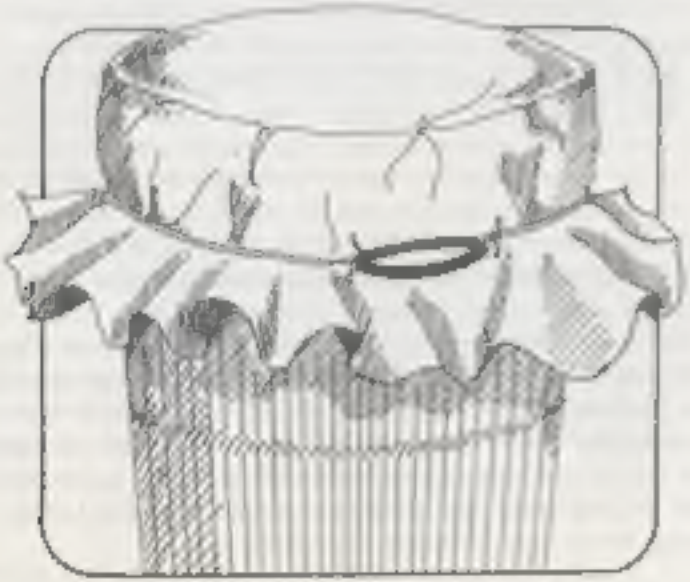
Always prestart your yeast for any batch of wine 3 gallons or

more. The recipe given above will handle any quantity of wine from 3 to 12 gallons; for larger quantities you will want to double, triple or quadruple the recipe. For smaller quantities, add the yeast culture directly to the must from vial or packet, since the smaller quantities of must will dilute the culture less than larger ones.

Primary Fermentation

After you have adjusted weight and acidity, and added a yeast culture, the vat in which this first (primary) fermentation goes on should be covered with a tight-fitting plastic sheet, fastened with string. Once a vigorous, rolling ferment is started (24 to 48 hours), stir the must and push down the "cap" (the vegetable crust that will form on the top) twice a day. Use a well-sterilized wooden spoon.

Weigh the must every day after the third day, to see how rapidly the fermentation is going. A weight loss of .007 to .015 per day is good; more than that indicates that the must should be moved to a cooler place.



To secure the plastic sheet over the primary fermenter, I have invented an elasticized fastener I call "Chuck's String." I take a string that is 4 inches shorter than the circumference of my primary fermenter. Then, I tie the string to a 3-inch rubber band. This makes an easy-to-use string that secures a tight cover over the fermenter.

Test the must frequently with your best piece of winemaker's test equipment — your nose. The smell of a fermenting must is pervasive, at least in the space in which it is fermenting, sometimes throughout the house. If there is an aroma in addition to those of fruit and CO_2 coming from the wine, do not be disturbed unless that aroma has a strong sulphur or vinegar cast to it. In that case, turn to our troubleshooting section, pages 19 to 21.

When the weight reaches 1.025 to 1.030, transfer the wine to glass carboys with a siphon and J-tube. If you are making a red wine, press out the residual fruit left in the fermenting vat. (Here again, the nylon bag is a useful alternative to a press.) Stopper the carboys with air locks filled with sulfite solution to permit CO_2 to escape and prevent air contact with the wine. Leave the wine in the primary fermenter for 5 to 10 days.

Secondary Fermentation

The next step is to rack the wine into freshly disinfected carboys for the secondary fermentation. To rack wine from a primary to secondary fermenter, place the vessel with the wine in it on a shelf or table at least 30 inches high. Put the sterilized carboy or jug on the floor. Take a 5-foot or 6-foot length of clear tubing with a J-tube on the end, and place the J-tube into the wine, on the bottom of the vessel. Apply suction on the plastic hose to fill it, and put the discharge end quickly into the vessel you are filling. When the wine is completely transferred, rinse and sterilize both the used vessel and the plastic tubing. Change the disinfectant in the air locks.

Until you are very experienced, check the weight of your wine at this point, too. A weight of 1.005 to 1.000 will be average, though a wine that started off very heavy (1.100+) will be fermenting slower at this point because its high alcohol content will inhibit yeast action. A wine with a vigorous yeast in it may well be below 1.000. As long as the wine is sending even the occasional bubble up through the air lock, it is actively fermenting.

Aging

Rack your wine again in another 6 to 12 weeks, adding 1 crushed Campden Tablet per gallon. I prefer a 6-week interval, especially

every 6 months.

Fining

Sparkaloid.

age further

Finishing

your cellar

At this point several months you will probably want to add a pinch of oak chips available from your wine supplier. Use your best judgement about the wine and general taste. Then remove the chips, rack the wine again

After racking, which you may wish to repeat several times, taste the wine. If it is rough on the palate, swallow and roll the wine around in the glass. If it leaves several glove-like sensations on the tongue and then you have a good sign. Second, the wine should be quick to squeeze into the cheeks back of your teeth. Next you should run your tongue and then swallow. The aroma of the wine should remain after swallowing. Then you have a second and a very good sign. The wine should not only be quick

better reds

Bottling

to right: Burgundy, Sauternes, Rhone

or breaking glassware

Cellaring

Don't give up too soon.

have the force of sacred writ

go off in flavor

oxidize

a well-made bottle of wine

Day-to-Day Summary

described to this point

Day	Start your yeast culture
1	
2	
3	
4	
5	
6	
7	
8	

reds may also be ready to serve

drank them

o year 40

ighter, faster-maturing wine

Troubleshooting

has 6 probable causes

temperature carefully

temperature carefully

or sweet or both ?

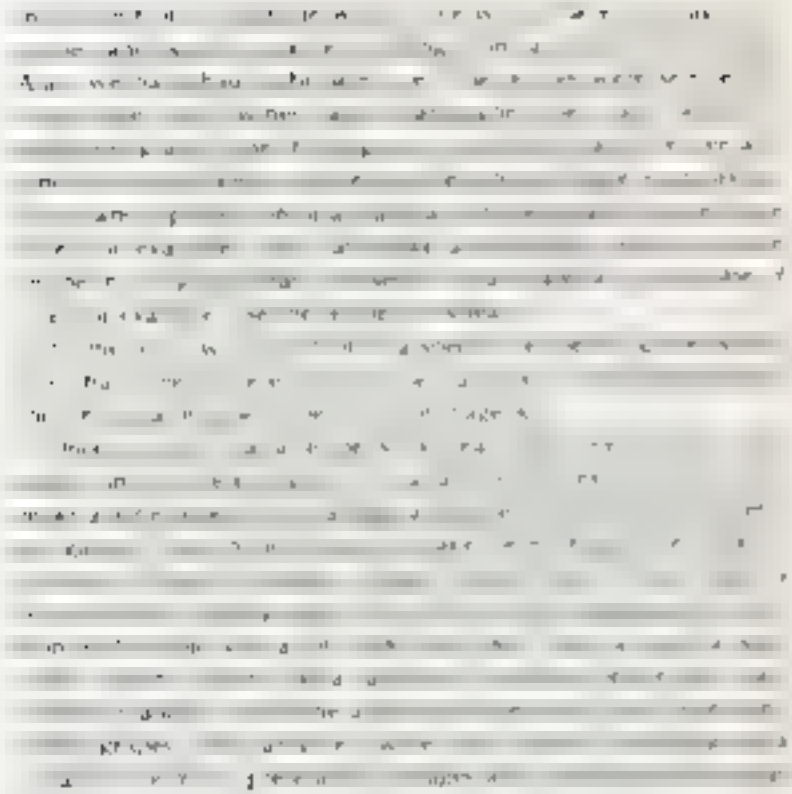
often and watch acidity levels

your wine

more

sterilizing

Recipes



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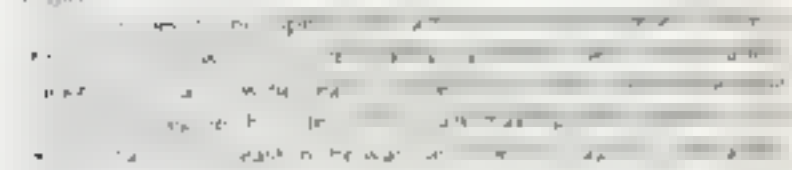

to the cooled must

CLIETT'S PLONK

10 weeks

1 unit 100 ounces apricot concentrate
grape tannin as per label
yeast nutrient as per label
warm water as per label
yeast culture
pectic enzyme as per label

culture and pectic enzyme

without paying a price

month's drinking

FLOWER WINE

before bottling.

2 quarts flowers (dandelion heads, [illegible] blossoms
4 pounds raisins, chopped
juice and peel of 4 oranges
juice and peel of 2 lemons
3 pounds sugar
[illegible] gallons water
4 tablespoons grape tannin
gallon boiling water
wine yeast

APRICOT OR PEACH WINE

5 pounds apricots or peaches
1 gallon boiling water
2-1/2 pounds sugar
2 tablespoon acid blend
1 2 teaspoon yeast nutrient
1 2 teaspoon pectic enzyme
yeast culture

[illegible]

[illegible]

but still do not taste quite up to snuff

with crown cap tops and a capper

[illegible]

water
acid blend
10 ounces sugar
1 packet dry champagne yeast

[illegible]

gallon of water

[illegible]

upright

[illegible]

test bottle

[illegible] champagne made at [illegible]

[illegible] in Eastern Europe

CIDER OR PERRY

[illegible] 5 bottle soda bottles and 5 [illegible]

3 pounds apples or pears
2 Campden Tablets
1 gallon boiling water
35 ounces sugar
3 teaspoons acid blend
1 teaspoon yeast nutrient
1 2 teaspoon grape tannin
1 2 teaspoon pectic enzyme
yeast culture

[illegible] Tightly cover the [illegible] and pass [illegible] Add the sugar, acid blend, [illegible] Add the [illegible] Then add the pectic enzyme [illegible] Cover and [illegible] days, stirring [illegible] Add [illegible]

[illegible] days [illegible] Add [illegible] Fill [illegible] bottles [illegible] Cork [illegible] bottle. This recipe makes [illegible]

[illegible]

[illegible] pounds [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]
it comes in contact. Beware
[illegible]

POTATO OR CARROT OR PARSNIP WINE

4 [illegible] pounds potatoes [illegible] carrots [illegible] parsnips
peel and juice of 2 oranges
peel and juice of 2 lemons
1 gallon boiling water
2 [illegible] 2 pounds sugar
1 teaspoon yeast nutrient
1 [illegible] 2 teaspoon pectic enzyme
1 [illegible] 2 teaspoon grape tannin
yeast culture

Scrub and dice the vegetables, [illegible] the discoloured parts. Add the peel [illegible]

APPLE OR PEAR WINE

- 6 pounds apples or pears
- 2 Campden Tablets
- 1 gallon boiling water
- 2 pounds sugar
- juice of 2 lemons
- 4 teaspoons acid blend
- 1 teaspoon yeast nutrient
- 1 1/2 teaspoon pectic enzyme
- 1 1/2 teaspoon grape tannin
- yeast culture

well. Tightly cover the vat

RASPBERRY OR PLUM WINE

[illegible] day. 1 2 pound on the sixth day

[illegible] pounds
2 teaspoons acid blend
2 Campden Tablets
2 pounds sugar
1 gallon warm water (100 degrees F
1 teaspoon yeast nutrient
1 1 teaspoon grape tannin
1 2 teaspoon pectic enzyme
yeast culture

[illegible]

WHEAT WINE

[illegible]

1 pound whole wheat berries
3 4 pound raisins
gallon boiling water
peel and juice 1 lemon
peel and juice of 2 oranges
2 pounds sugar
1 2 teaspoon acid blend
1 teaspoon grape tannin
2 teaspoon yeast nutrient
1 4 teaspoon pectic enzyme
yeast culture

[illegible]

gallon

UNIVERSAL WINE RECIPE*

should take are as follows.

350 pounds of grapes

through 18

FRUIT	WEIGHT OF FRUIT TO YIELD 1 GALLON	PREPARATION OF FRUIT	WATER	ACID BLEND	CAMPDEN TABLETS	YEAST NUTRIENT	SUGAR	RAISINS	PECTIC ENZYME	GRAPE TANNIN	WINE YEAST
Apples	8 lb	Crush	1 gal	4 tsp.	2	1 tsp.	2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.
Apricots	3 lb	Destone	1 gal	2 tsp.	2	1 tsp.	1-1/2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.
Blackberries	4 lb	Crush	1 gal	1 tsp.	2	1 tsp.	1-1/2 lb.	None	1/2 tsp.	None	1 pkt.
Blueberries	2 lb	Crush	1 gal	3 tsp.	2	1 tsp. vinegar	2-1/2 lb.	1 lb.	1/2 tsp.	None	1 pkt.
Sweet cherries	4 lb	Crush	1 gal	3 tsp.	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.
Sour cherries	3 lb	Crush	1 gal	2 tsp.	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.
Cranberries	4 lb	Crush	1 gal	None	2	1 tsp.	1 lb.	1-1/2 lb.	1/2 tsp.	None	1 pkt.
Concord grapes	6 lb	Crush	1 gal	None	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	None	1 pkt.
California grapes	10 lb	Crush	None	1 tsp.	2	None	None	None	None	None	1 pkt.
Loganberries	2 lb	Crush	1 gal	2 tsp.	2	1 tsp.	1 lb.	None	1/2 tsp.	None	1 pkt.
Peaches	3 lb	Destone	1 gal	1 tsp.	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.
Plums	4 lb	Destone	1 gal	2 tsp.	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	1/8 tsp.	1 pkt.
Raspberries	3 lb	Crush	1 gal	1 tsp.	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.
Strawberries	5 lb	Crush	1 gal	1 tsp.	2	1 tsp.	2-1/2 lb.	None	1/2 tsp.	1/4 tsp.	1 pkt.

Note: all measure measures in this table are level measures.

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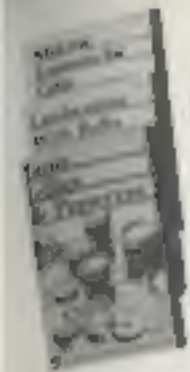

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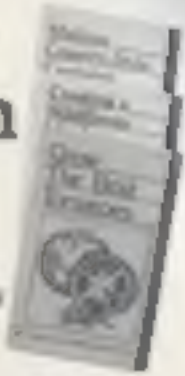

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